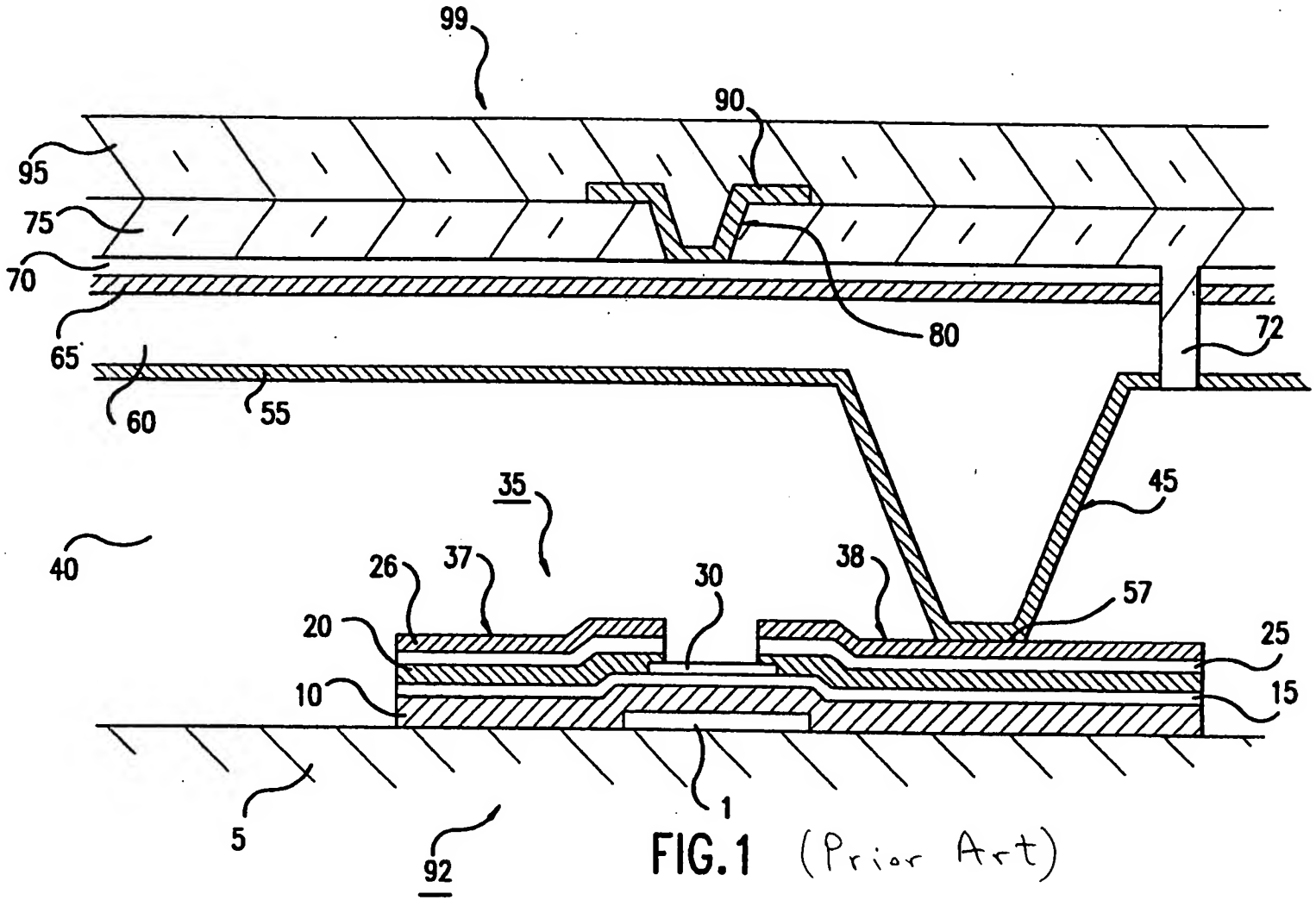


FIG.1 (Prior Art)

Fig. 2 (Prior Art)

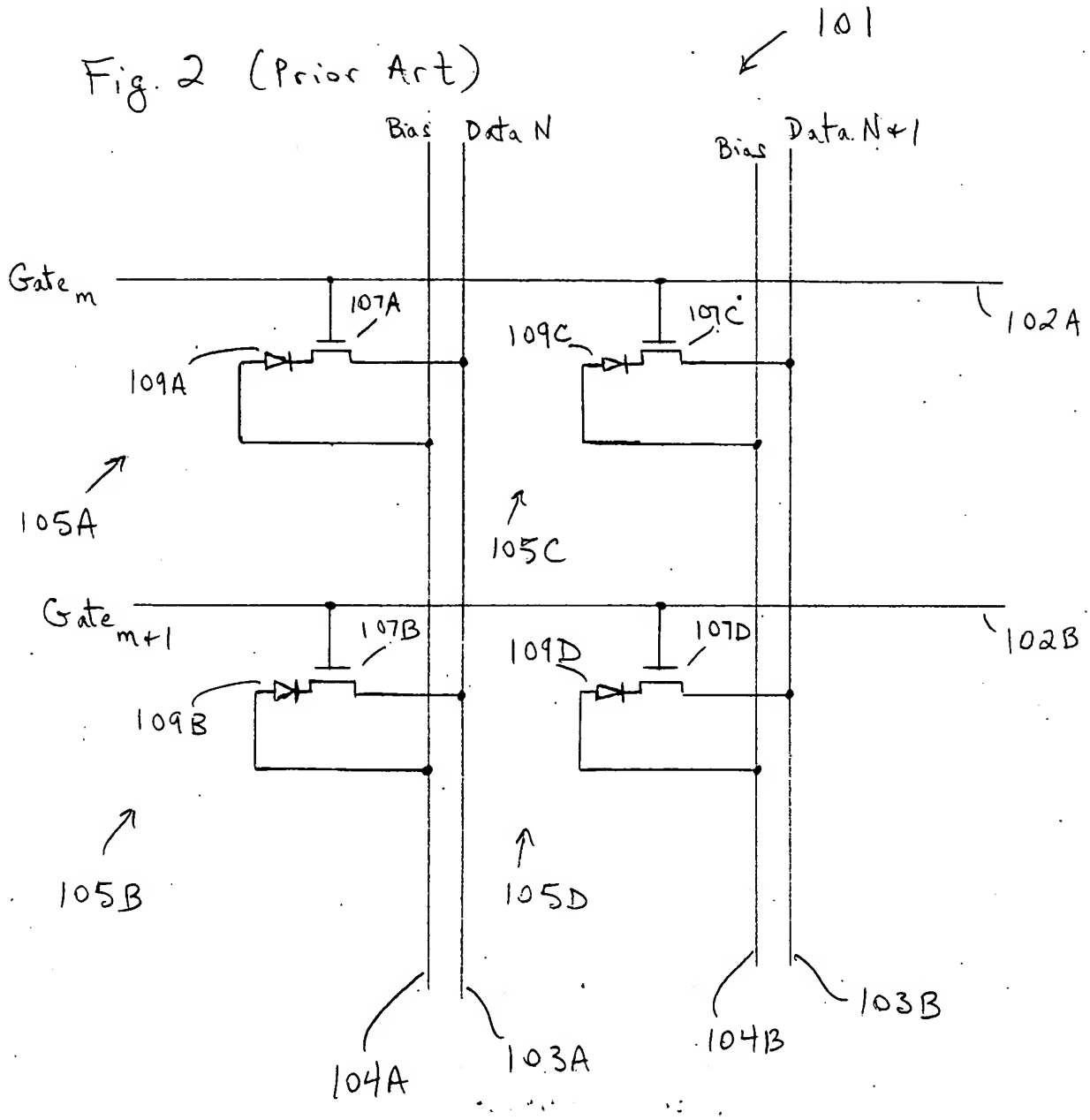


Fig. 3A

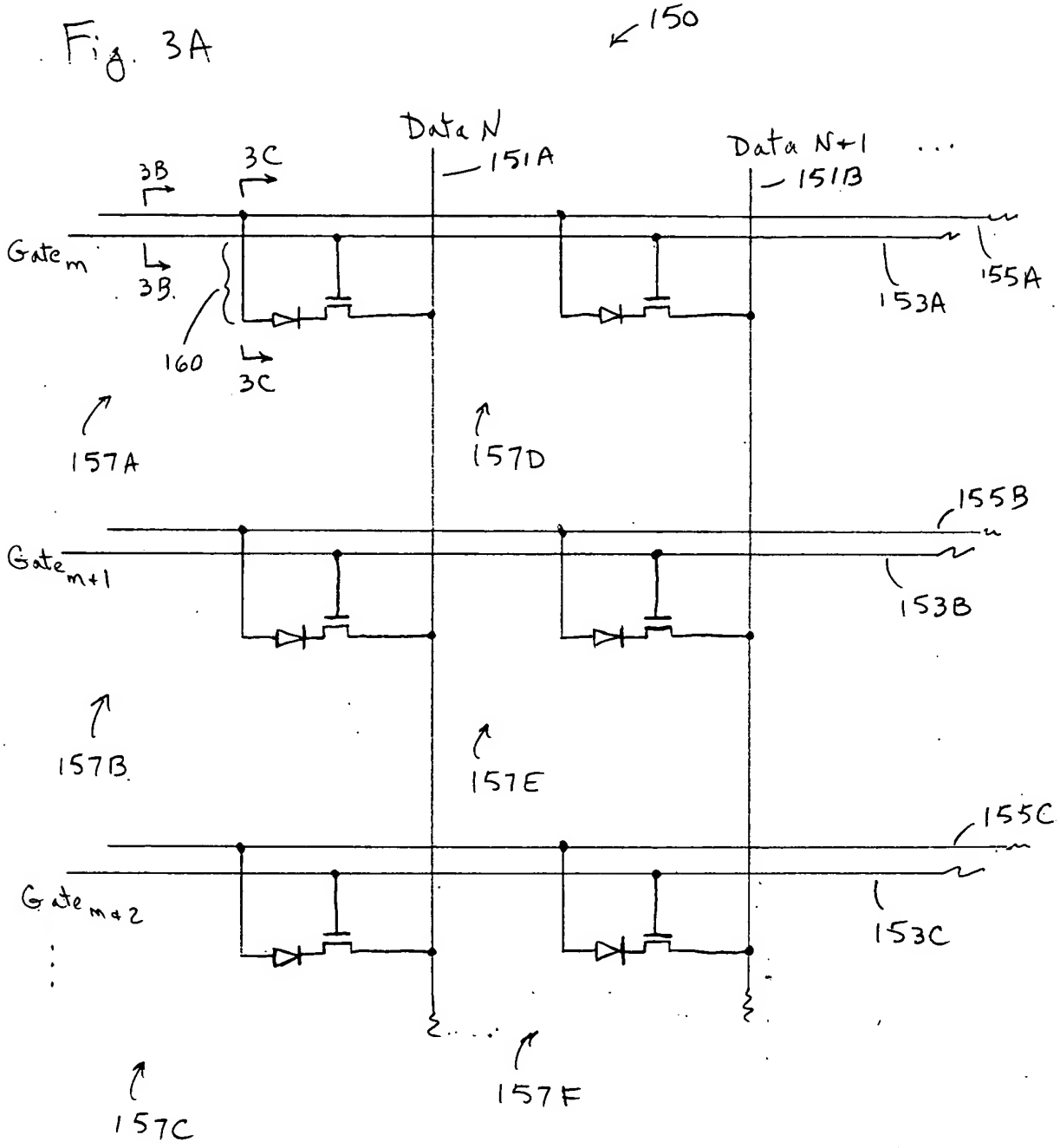

150
Data N
151A
Data N+1
151B
3B
3C
Gate m
3B
160
3C
155A
153A
157A
157D
155B
Gate m+1
153B
157B
157E
155C
Gate m+2
153C
157F
157C

Fig. 3B

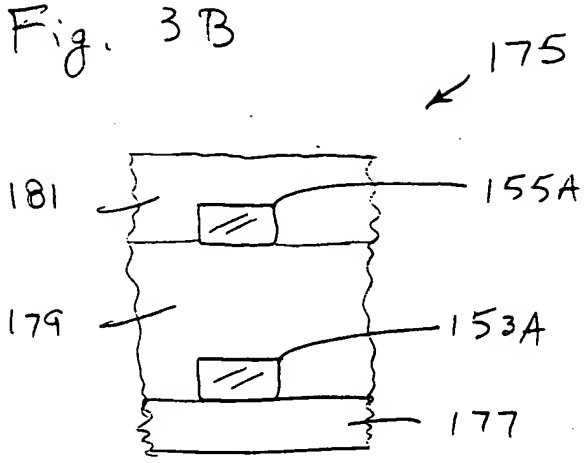


Fig. 3C

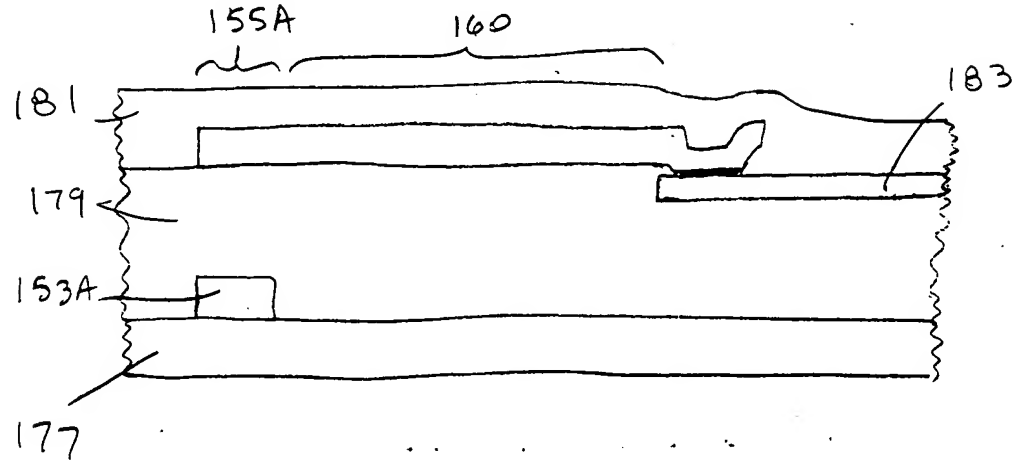


Fig. 4B

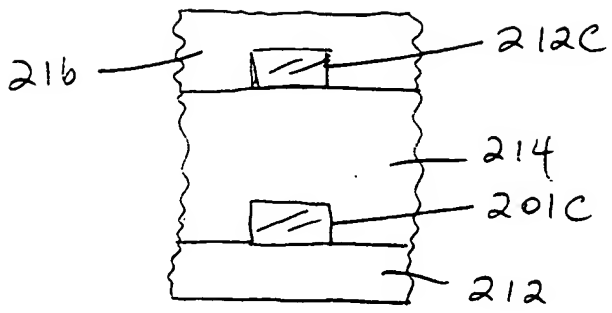


Fig. 4A

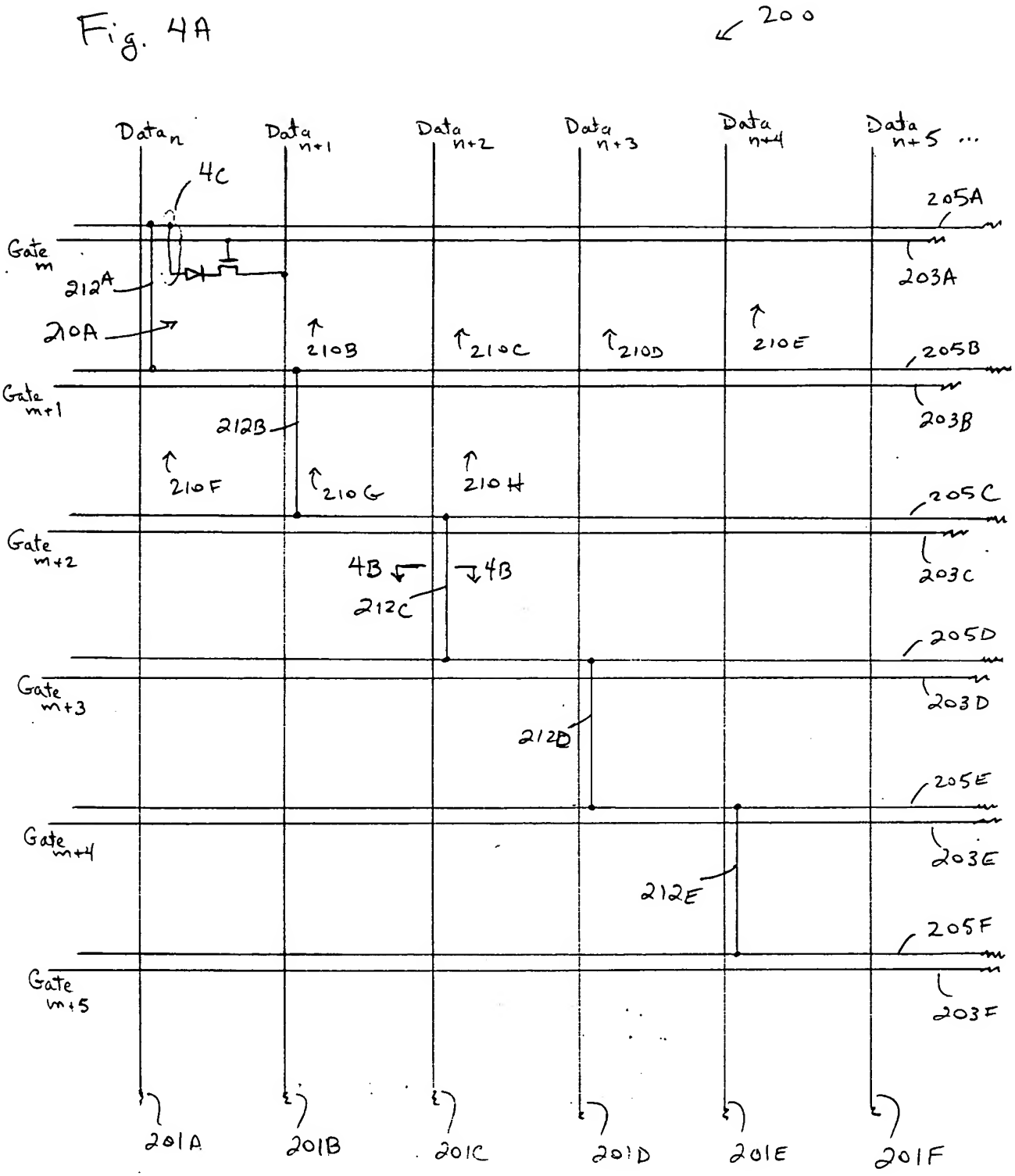

200
Data n
Data n+1
Data n+2
Data n+3
Data n+4
Data n+5 ...
4C
205A
Gate m
212A
203A
210A
210B
210C
210D
210E
205B
Gate m+1
203B
212B
210F
210G
210H
205C
Gate m+2
4B
4B
212C
203C
205D
Gate m+3
203D
212D
205E
Gate m+4
203E
212E
205F
Gate m+5
203F
201A
201B
201C
201D
201E
201F

Fig. 5A

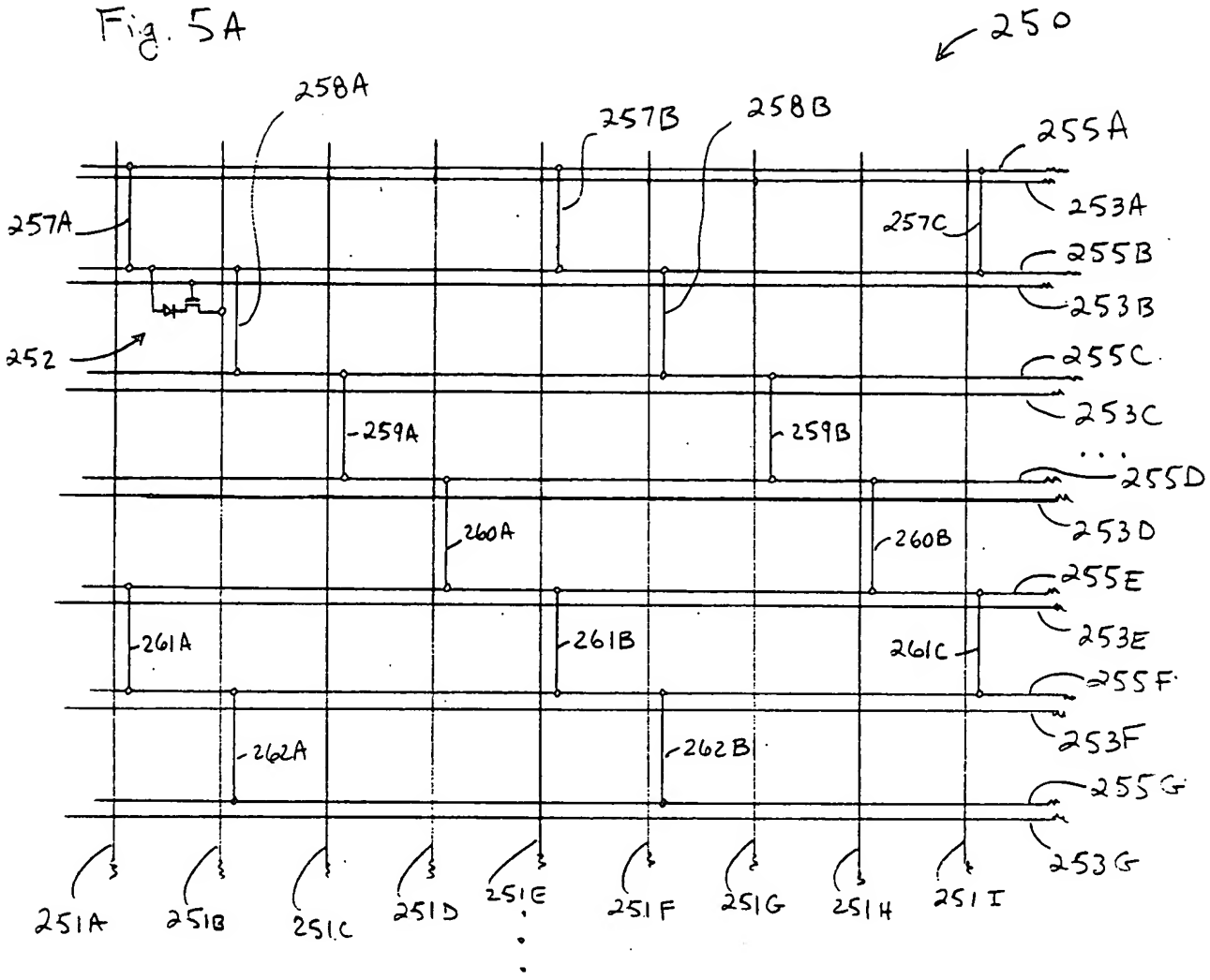

250
258A
257B
258B
255A
257A
253A
257C
255B
253B
252
255C
253C
259A
259B
255D
253D
260A
260B
255E
253E
261A
261B
261C
255F
253F
262A
262B
255G
253G
251A
251B
251C
251D
251E
251F
251G
251H
251I

Fig. 5B

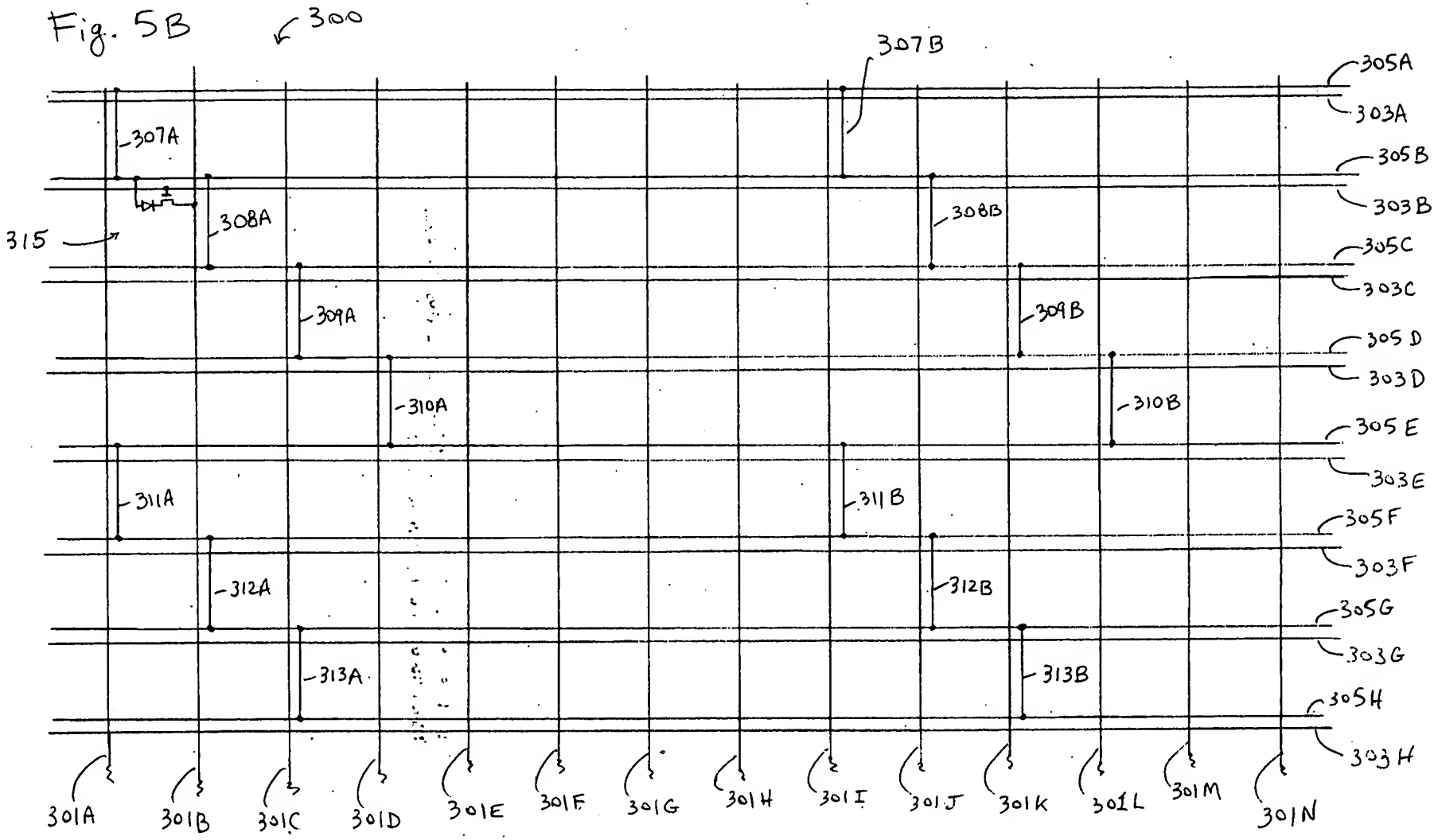

300
307B
305A
303A
307A
305B
303B
308A
308B
315
305C
303C
309A
309B
305D
303D
310A
310B
305E
303E
311A
311B
305F
303F
312A
312B
305G
303G
313A
313B
305H
303H
301A
301B
301C
301D
301E
301F
301G
301H
301I
301J
301K
301L
301M
301N

Fig. 5C

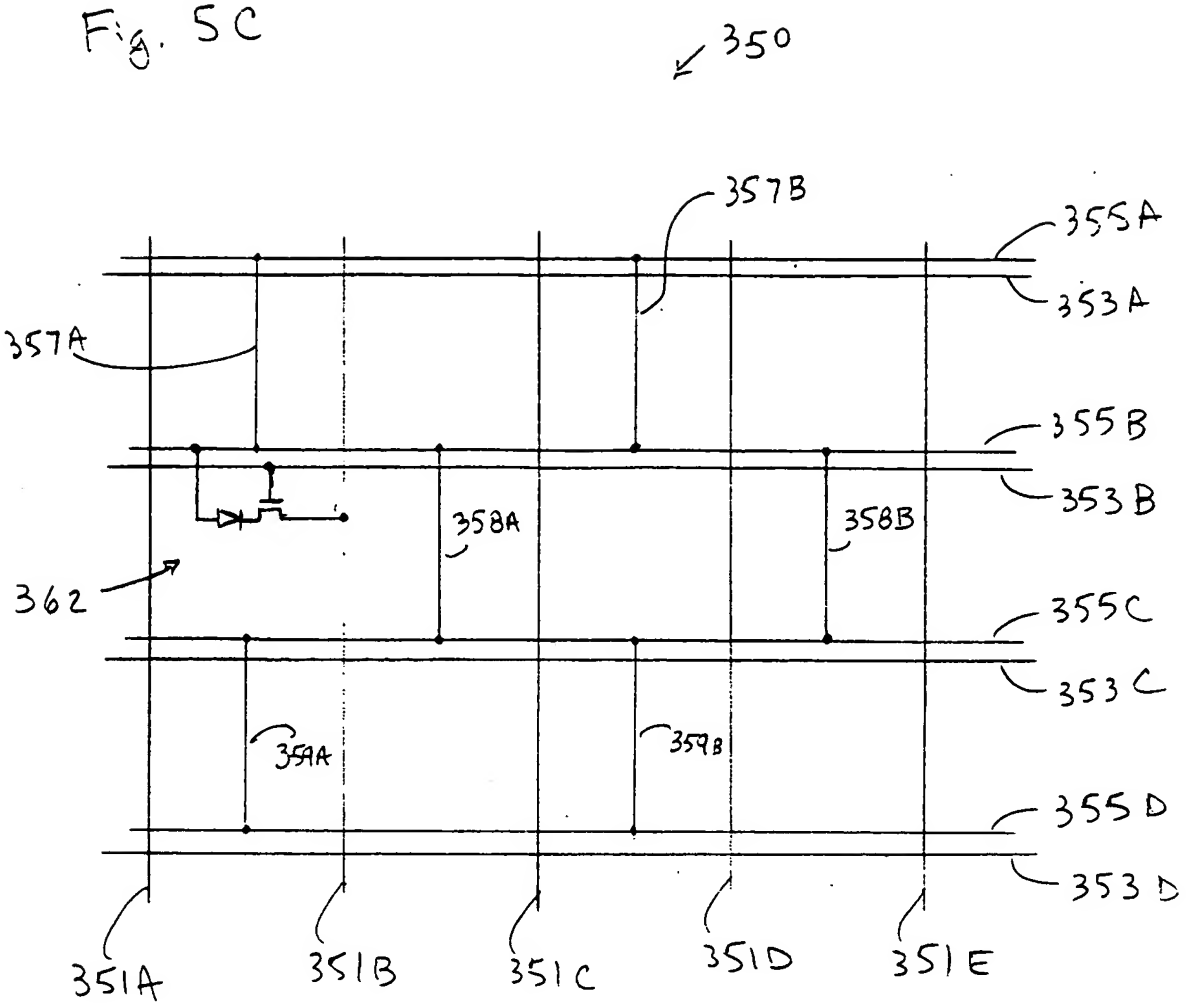

350
357B
355A
353A
357A
355B
353B
358A
358B
362
355C
353C
359A
359B
355D
353D
351A
351B
351C
351D
351E

Fig. 6

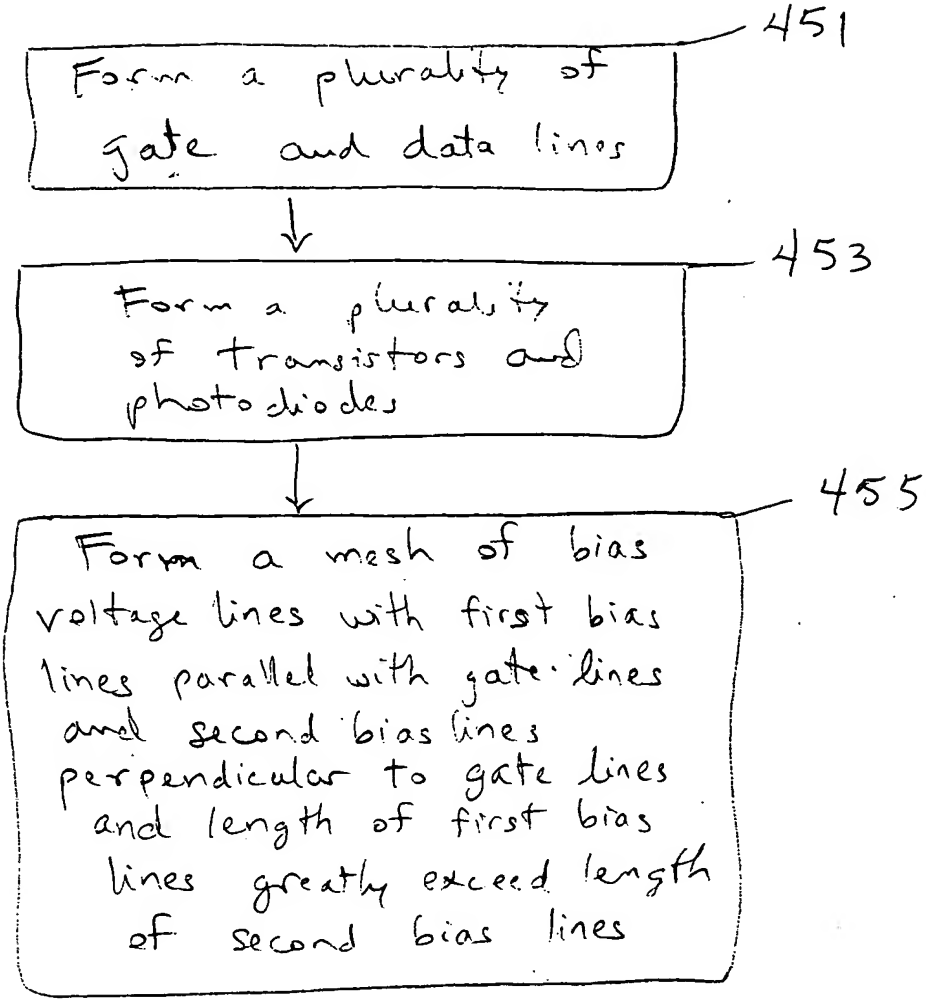

451
Form a plurality of gate and data lines
453
Form a plurality of transistors and photodiodes
455
Form a mesh of bias voltage lines with first bias lines parallel with gate lines and second bias lines perpendicular to gate lines and length of first bias lines greatly exceed length of second bias lines

Fig. 7A

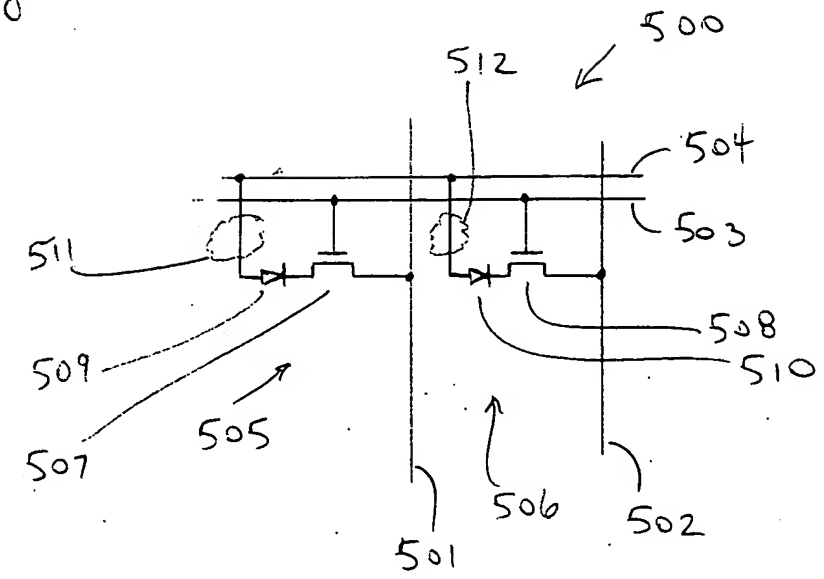

500
512
504
503
511
508
509
510
505
507
506
502
501

Fig. 7B

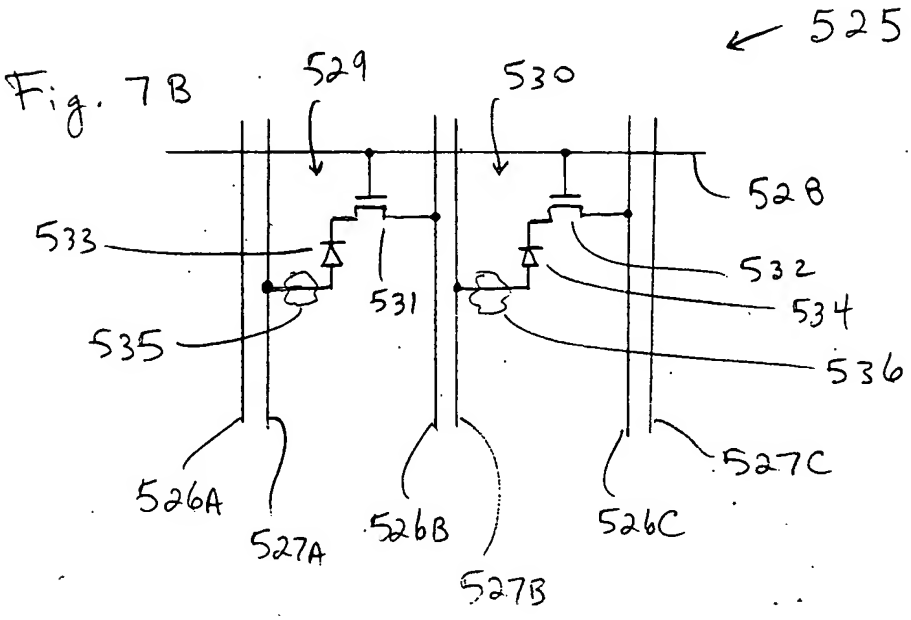

525
529
530
528
533
532
531
534
535
536
527C
526A
527A
526B
526C
527B

Fig. 8

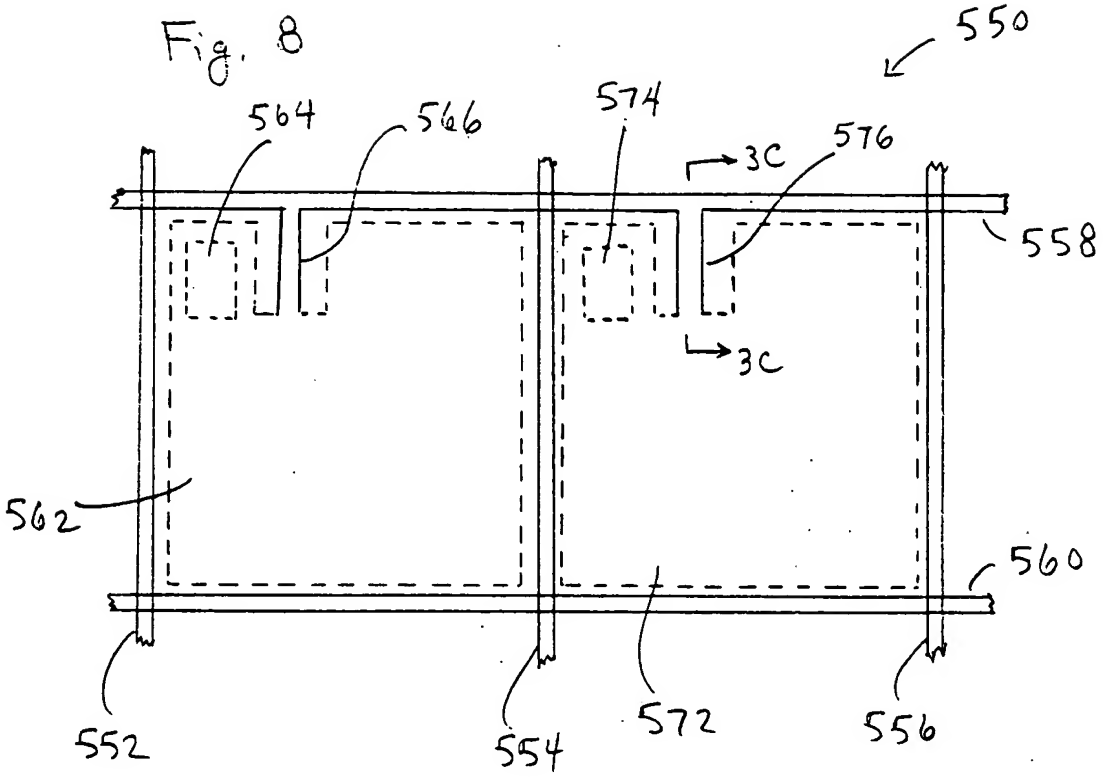
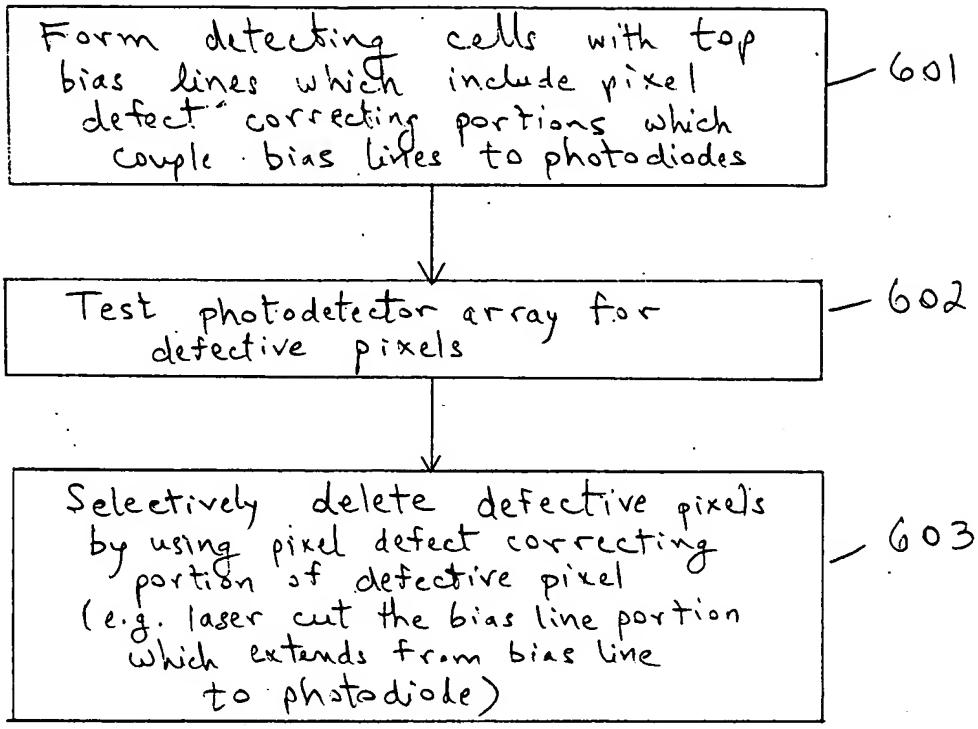


Fig. 9


Form detecting cells with top bias lines which include pixel defect correcting portions which couple bias lines to photodiodes
601
Test photodetector array for defective pixels
602
Selectively delete defective pixels by using pixel defect correcting portion of defective pixel (e.g. laser cut the bias line portion which extends from bias line to photodiode)
603